

Search Report

STIC Database Tracking Number

To: CLAYTON LABALLE

Location: JEF-8D51

Art Unit: 2800

Wednesday, April 01, 2009

Patent Number: 5981860

From: DIANE JACKSON

Location: EIC2800

JEF-4B68

Phone: (571)272-3260

diane.jackson@uspto.gov

Search Notes

Attached are litigation search results in Lexis Nexis, and CourtLink and Questel-Orbit.

No Litigation was found for Patent Number 5981860.

If you have any questions, please feel free to contact me.

Thanks,

Diane



Jackson, Diane

291422

From: Laballe, Clayton

Sent: Wednesday, April 01, 2009 1:16 PM

To: STIC-EIC2800

Subject: litigation search for patent 5981860

Please provide a litigation search for patent 5981860. Palm location 28U1. Thanks,

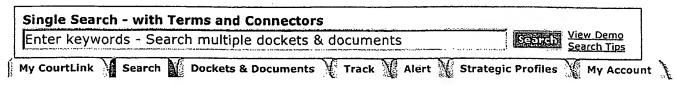
Clayton E. LaBalle

TQAS TC2800

Jefferson Building, 8D51

(571) 272-1594

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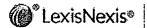
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Patent Search 5981860 4/1/2009

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Source: Combined Source Set 10 [] - Utility, Design and Plant Patents
Terms: patno=5981860 (Edit Search | Suggest Terms for My Search)

920947 (08) 5981860 November 9, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5981860

Get Drawing Sheet 1 of 41

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Link to Claims Section

November 9, 1999

Sound source system based on computer software and method of generating acoustic waveform data

REISSUE: October 12, 2001 - Reissue Application filed Ex. Gp.: 2837; Re. S.N. 09/976,769 (O.G. December 18, 2001)

INVENTOR: Isozaki, Yoshimasa - Hamamatsu, Japan (JP)Masuda, Hideyuki - Hamamatsu, Japan (JP); Suzuki, Hideo - Hamamatsu, Japan (JP); Shimizu, Masahiro - Hamamatsu, Japan (JP); Hirano, Masashi - Hamamatsu, Japan (JP)

APPL-NO: 920947 (08)

FILED-DATE: August 29, 1997

GRANTED-DATE: November 9, 1999

PRIORITY: August 30, 1996 - 8246942, Japan (JP)August 30, 1996 - 8248592, Japan (JP); January 14, 1997 - 9017333, Japan (JP)

ASSIGNEE-PRE-ISSUE: August 29, 1997 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., YAMAHA CORPORATION 10-1, NAKAZAWA-CHO, HAMAMATSU-SHISHIZUOKA, (1), Reel and Frame Number: 008702/0031

ASSIGNEE-AT-ISSUE: Yamaha Corporation, Hamamatsu, Japan (JP), Foreign company or corporation (03)

LEGAL-REP: Graham & James LLP

PUB-TYPE: November 9, 1999 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 84#603

US-ADDL-CL: 84#622

CL: 84

Selected file: PLUSPAT

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RELOADED 02/2008 Comprehensive Worldwide Patents database
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Coverage: 79 patenting authorities; start dates vary from 1800 forward
Abstracts/Titles in English , French & German. Increased
standardization
of Assignee/Inventor names. Added cited ref's BE , CH , NL , TR , AU ,
& JPB
For PlusPat Fact Sheet , Pricing and FAQ , see the Questel website
Last update of file: 2009/03/27 (YYYY/MM/DD) 2009-13/UP (last update)

Search statement 1

NBR /PN US5981860

PLUSPAT1 US5981857		1
PLUSPAT2 US5981858		1
PLUSPAT3 US5981859		1
PLUSPAT4 US598186		1
PLUSPAT5 US5981860		1
PLUSPAT6 US5981861		1
PLUSPAT7 US5981862		1
PLUSPAT8 US5981863		1
PLUSPAT9 US5981864		. 1
PLUSPAT10US5981865		1
PLUSPAT11US5981866		1
PLUSPAT12US5981867	,	1
PLUSPAT13US5981868		1
PLUSPAT14US5981869		1
PLUSPAT15US598187		1
Some: numbers / Continue: Y / None: N		

Search 1 - 5 - 1

** SS 1: Results 1

Continue: Y / N

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Select All | Unselect All

1/1 PLUSPAT Worldwide Patents - ©Questel

US5981860 (A) Sound source system based on computer software and method of generating a... PN US5981860 A 19991109 [US5981860] (A) Sound source system based on computer software and method of ΤI generating acoustic waveform data PA (A) YAMAHA CORP (JP) PA0 Yamaha Corporation, Hamamatsu [JP] (A) ISOZAKI YOSHIMASA (JP); MASUDA HIDEYUKI (JP); SUZUKI IN HIDEO (JP); SHIMIZU MASAHIRO (JP); HIRANO MASASHI (JP) AP US92094797 19970829 [1997US-0920947] JP24694296 19960830 [1996JP-0246942] PR JP24859296 19960830 [1996JP-0248592] JP1733397 19970114 [1997JP-0017333] IC (A) G10H-007/00 G10H-001/18 [2006-01 A - I R M EP] ICAA G10H-007/00 [2006-01 A - I R M EP] G10H-001/18 [2006 C - I R M EP] ICCA G10H-007/00 [2006 C - I R M EP] G10H-001/18D2B EC G10H-007/00C3 PCL ORIGINAL (O): 084603000; CROSS-REFERENCE (X): 084622000 DT Corresponding document US4554857 [US4554857] 084624000 -US5040448 [US5040448] 084622000 -US5200564 [US5200564] -US5220117 [US5220117] CT -US5677504 [US5677504] -US5696342 [US5696342] 084603000 -US5698806 [US5698806] 084615000 -US5714703 [US5714703] 084603000 STG (A) United States patent A sound source apparatus has operation blocks composed of softwares used to compute waveforms for generating a plurality of musical tones through a plurality of channels according to performance information. In the apparatus, a setting device sets an algorithm which determines a system composed of selective ones of the operation blocks systematically combined with each other to compute a waveform specific to one of the musical tones. A AB designating device responds to the performance information for designating one of the channels to be used for generating the musical tone. A generating device allocates the selective operation blocks to the one channel and systematically executes the allocated selective operation blocks according to

the algorithm so as to compute the waveform to thereby generate the musical tone through the channel. The generating device responds to a variable

sampling frequency for executing the operation blocks to successively compute samples of the waveform in synchronization to the variable sampling frequency so as to generate the musical tone, and sets the variable sampling frequency according to process of computation of the waveform by the operation blocks.

US5981860 20011218 US/RFA [OPP]REISSUE APPLICATION

FILEDEFFECTIVE DATE: 20011012

PN US5981860 A 19991109 [US5981860](A) Patent

AP US92094797 19970829 [1997US-0920947]

19970829 US-API [POS; EXM]

FILING DETAILS

PUB US92094797 19970829 [1997US-0920947]

19991109 US-A [POS; EXM]

Patent

US5981860 A 19991109 [US5981860]

20011218 US/RF-A [OPP]

ACT REISSUE APPLICATION FILED

EFFECTIVE DATE: 20011012

LEG OPP

Alive

UP 2003-22

1/1 CRXX - US Claims
Reassignations - @CLAIMS/RRX

US5981860 20011012 REISSUE REQUESTEDISSUE DATE OF O.G.: 20011218REISSUE REQUEST NUMBER...

AN 3232850

PN 5,981,860 A 19991109 [US5981860]

PA Yamaha Corp JP

PT E (Electrical)

20011012 REISSUE REQUESTED ISSUE DATE OF O.G.: 20011218 REISSUE REQUEST NUMBER: 09/976769

ACT

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2837

Reissue Patent Number:

UP 2001-51 UACT 2001-12-18

Search statement 2

..FI FAMPAT

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of Assignee/Inventor names. Added cited ref's BE , CH , NL , TR , AU , & JPB

For more details , see the FamPat Fact Sheet and Questel website Last update of file: 2009/03/27 (YYYY/MM/DD) 2009-13/UP (last update)

Search statement 1

NBR /PN US5981860

FAMPAT1 US5981857	1
FAMPAT2 US5981858	1
FAMPAT3 US5981859	1
FAMPAT4 US598186	1
FAMPAT5 US5981860	1
FAMPAT6 US5981861	1
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FAMPAT14US5981869
FAMPAT15US598187
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1/1 FAMPAT - Patent Families - ©Questel

EP-827132 Sound source system based on computer software and method of generating acous...

1

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FAN 20042782078404

EP0827132 A1 19980304 [EP-827132]

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PN US5981860 A 19991109 [US5981860]

JP3141789 B2 20010305 [JP3141789]

EP0827132 B1 20020403 [EP-827132] DE69711518 D1 20020508 [DE69711518]

DE69711518 T2 20021128 [DE69711518]

TI Sound source system based on computer software and method of generating acoustic waveform data

PA YAMAHA CORP

PA0 YAMAHA CORPORATION; 10-1, Nakazawa-cho; Hamamatsu-shi, Shizuoka-ken 430 (JP)

IN ISOZAKI YOSHIMASA; SUZUKI HIDEO; SHIMIZU MASAHIRO;

MASUDA HIDEYUKI; HIRANO MASASHI

1996JP-0246942 19960830

1997SG-0003053 19970826

1997DE-6011518 19970828

1997EP-0114933 19970828 1997US-0920947 19970829

1996ЈР-0246942 19960830

PR 1996JP-0248592 19960830

1997JP-0017333 19970114

IC G10H-001/00

AP

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G10H-001/02
      G10H-001/18
      G10H-007/00
      G10H-007/08
      G10H-001/18 [2006-01 A - I R M EP]
ICAA
      G10H-007/00 [2006-01 A - I R M EP]
      G10H-001/18 [2006 C - I R M EP]
ICCA
      G10H-007/00 [2006 C - I R M EP]
      G10H-001/18D2B
EC
      G10H-007/00C3
PCL
      ORIGINAL (O): 084603000; CROSS-REFERENCE (X): 084622000
FI
      G10H7/00 541; G10H1/00 Z; G10H1/02
      5D027 BB05; 5D027 BC01; 5D027 KK02; 5D027 KK06; 5D083 BD17;
FTM
      5D083 CC09; 5D083 CD10; 5D378 AA00; 5D378 BB00; 5D378 BB10;
      5D378 BB01; 5D378 QQ00; 5D378 GG11; 5D378 QQ01; 5D378 ZZ03
      (EP-827132)
DS
      DE GB IT
      (EP-827132)
      Cited in the search report
      -U$5376752(A)(Cat. X)[US5376752]
      -WO8001215(A1)(Cat. X)[WO8001215]
CT
       -WO9618995(A1)(Cat. A)[WO9618995]
      -US5410099(A)(Cat. A)[US5410099]
      -US5432293(A)(Cat. A)[US5432293]
       -EP0536644(A1)(Cat. A)[EP-536644]
       (US5981860)
      US4554857 [US4554857] 084624000
       -US5040448 [US5040448] 084622000
       -US5200564 [US5200564]
CT
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       -US5677504 [US5677504]
      -US5696342 [US5696342] 084603000
       -US5698806 [US5698806] 084615000
      -US5714703 [US5714703] 084603000
      (JP10074088)
      (A)
      [19] Citation as reason for refusal of an application
CT
       - JP (A) 1990179697 [JP02179697]
      - JP (A) 1995319471 [JP07319471]
      - JP (A) 1995271378 [JP07271378]
      (EP-827132)
       A sound source apparatus has operation blocks composed of software
       modules used to compute waveforms for generating a plurality of musical
AB
       tones through a plurality of channels according to performance information.
       A setting device sets an algorithm which determines a system composed of
       selective ones of the operation blocks systematically combined with each
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other to compute a waveform specific to one of the musical tones. A designating device responds to the performance information for designating one of the channels to be used for generating the musical tone. A generating device allocates the selective operation blocks to the one channel and systematically executes the allocated selective operation blocks according to the algorithm so as to compute the waveform to thereby generate the musical tone through the channel. The generating device responds to a variable sampling fréquency for executing the operation blocks to successively compute samples of the waveform in synchronization to the variable sampling frequency so as to generate the musical tone, and sets the variable sampling frequency according to process of computation of the waveform by the operation blocks. <IMAGE>

(EP-827132)

The present invention relates to a sound source system that combines music tone waveform generating modules made of software, and that generates music tone waveform data based on music tone waveform generating computation performed by each music tone waveform generating module. In addition, the present invention relates to a sound source waveform generating method that uses a general-purpose computation processing machine for executing a waveform computation algorithm so as to generate tone waveform data.

It is therefore an object of the present invention to provide a sound source system based on computer software capable of reducing cost by generating a music tone by a software program without adding special dedicated hardware and, at the same time, capable of changing the load of a computation unit for computing music tone waveform and improving the quality of an output music tone.

It is another object of the present invention to provide a tone waveform data generating method that is capable of generating tone waveform data without interrupting the vocalization of a music tone even if the CPU load is raised high, and capable of, when the CPU is operating in the multitask mode, processing tasks not associated with the tone waveform generation without placing these tasks in a wait state.

It is still another object of the present invention to provide a tone waveform data generating method that makes a hardware sound source fully put forth its computational capability to provide the waveform output having higher precision than before.

(EP-827132)

It is also difficult for the hardware sound source to flexibly modify its specifications once the design has been completed.

Use of the hardware sound source in a computer system or a computer-based system presents problems of increasing the cost and decreasing the flexibility of modification.

However, the conventional software sound source cannot satisfy a variety of practical demands occurring during vocalization or during operation of the sound source.

OBJ

(EP-827132)

1. A sound source apparatus having operation blocks composed of softwares used to compute waveforms for generating a plurality of musical tones through a plurality of channels according to performance information, the apparatus comprising:

a setting device for setting an algorithm which determines a system composed of selective ones of the operation blocks systematically combined ICLM with each other to compute a waveform specific to one of the musical tones; a designating device responsive to the performance information for designating one of the channels to be used for generating said one musical tone; and

a generating device for allocating the selective operation blocks to said one channel and for systematically executing the allocated selective operation blocks according to the algorithm so as to compute the waveform to thereby generate said one musical tone through said one channel.

UP 2000-10

1/4 LGST - Legal Status - ©EPO

US5981860 20011218 US/RFA [OPP]REISSUE APPLICATION FILEDEFFECTIVE DATE: 20011012

PN US5981860 A 19991109 [US5981860](A) Patent

AP US92094797 19970829 [1997US-0920947]

19970829 US-API [POS; EXM]

FILING DETAILS

PUB US92094797 19970829 [1997US-0920947]

19991109 US-A [POS; EXM]

Patent

US5981860 A 19991109 [US5981860]

20011218 US/RF-A [OPP]

ACT REISSUE APPLICATION FILED

EFFECTIVE DATE: 20011012

LEG OPP

Alive

UP 2003-22

2/4 LGST - Legal Status - ©EPO

EP-827132 19980304 EP/AKA [POS; ADM]DESIGNATED CONTRACTING STATES:BENANNTE VERTRAGSST...

PN EP0827132 A1 19980304 [EP-827132](A1) Application published with search report EP0827132 B1 20020403 [EP-827132](B1) Patent specification

AP EP97114933 19970828 [1997EP-0114933]

19970828 EP-API [POS; EXM]

FILING DETAILS

EP97114933 19970828 [1997EP-0114933]

19980304 EP-A1 [POS; EXM]

PUB Application published with search report

EP0827132 A1 19980304 [EP-827132]

20020403 EP-B1 [POS; PIF]

Patent specification

EP0827132 B1 20020403 [EP-827132]

19980304 EP/AK-A [POS; ADM]

DESIGNATED CONTRACTING STATES:

BENANNTE VERTRAGSSTAATEN

DE GB IT

19980304 EP/17P-A [POS; EXM]
REQUEST FOR EXAMINATION FILED
PRUEFUNGSANTRAG GESTELLT
EFFECTIVE DATE: 19970828

19981118 EP/AKX-A [POS; ADM; PIF] PAYMENT OF DESIGNATION FEES ZAHLUNG VON BENENNUNGSGEBUEHREN DE GB IT

ACT19981118 EP/RBV-A [POS; ADM]

DESIGNATED CONTRACTING STATES (CORRECTION): BENANNTE VERTRAGSSTAATEN (KORR.) DE GB IT

20000712 EP/17Q-A [POS; EXM] FIRST EXAMINATION REPORT ERSTER PRUEFUNGSBESCHEID EFFECTIVE DATE: 20000526

20020101 EP/REG-A; GB/IF02 [POS; PIF] REFERENCE TO A NATIONAL CODE

GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01

Corresponding cc: GB

20020403 EP/AK-A [POS; ADM]

DESIGNATED CONTRACTING STATES: BENANNTE VERTRAGSSTAATEN DE GB IT

20020508 EP/REF-A [ENP] CORRESPONDS TO: ENTSPRICHT

Corresponding Pat: DE 69711518 20020508 [DE69711518]

20030326 EP/26N-A [POS; OPP] NO OPPOSITION FILED KEIN EINSPRUCH EINGELEGT EFFECTIVE DATE: 20030106

20060823 EP/PGFP-A [POS; PIF]

POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

Corresponding cc: GB

PAYMENT DATE: 20060823; PAYMENT YEAR: 10

20060831 EP/PGFP-A [POS; PIF]

POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

Corresponding cc: IT

PAYMENT DATE: 20060831; PAYMENT YEAR: 10

20070823 EP/PGFP-A [POS; PIF]

POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

Corresponding cc: DE

PAYMENT DATE: 20070823; PAYMENT YEAR: 11

20080102 EP/PGFP-A [POS; PIF]

POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

Corresponding cc: GB

PAYMENT DATE: 20070822; PAYMENT YEAR: 11

20080131 EP/PGFP-A [POS; PIF]

POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

Corresponding cc: IT

PAYMENT DATE: 20070829; PAYMENT YEAR: 11

20081031 EP/PGFP-A [POS; PIF]

POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

Corresponding cc: DE

PAYMENT DATE: 20080912; PAYMENT YEAR: 12

20081031 EP/PGFP-A [POS; PIF]

POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

Corresponding cc: GB

PAYMENT DATE: 20050824; PAYMENT YEAR: 09

20081128 EP/PGFP-A [POS; PIF]

POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

Corresponding cc: IT

PAYMENT DATE: 20080828; PAYMENT YEAR: 12

20081231 EP/PGFP-A [POS; PIF]

POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE

Corresponding cc: GB

PAYMENT DATE: 20080903; PAYMENT YEAR: 12

LEG PIF Alive

3/4 LGST - Legal Status - ©EPO

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EP1087372 20010328 EP/ACA [ADM]DIVISIONAL APPLICATION (ART. 76) OF:TEILANMELDUNG (ART...

PN EP1087372 A2 20010328 [EP1087372](A2) Application published without search report EP1087372 A3 20041201 [EP1087372](A3) Search report

AP EP00123550 19970828 [2000EP-0123550]

19970828 EP-API [POS; EXM]

FILING DETAILS

EP00123550 19970828 [2000EP-0123550]

20010328 EP-A2 [POS; EXM]

PUB Application published without search report

EP1087372 A2 20010328 [EP1087372]

20041201 EP-A3 [POS; EXM]

Search report

EP1087372 A3 20041201 [EP1087372]

20010328 EP/AC-A [ADM]

DIVISIONAL APPLICATION (ART. 76) OF:

TEILANMELDUNG (ART. 76) AUS:

Corresponding Pat: EP 827132 0 [EP-827132]

ACT 20010328 EP/AK-A [POS; ADM]

DESIGNATED CONTRACTING STATES:

BENANNTE VERTRAGSSTAATEN

DE GB IT

20010328 EP/17P-A [POS; EXM]

REQUEST FOR EXAMINATION FILED

PRUEFUNGSANTRAG GESTELLT EFFECTIVE DATE: 20001027

20041201 EP/AK-A [POS; ADM]
DESIGNATED CONTRACTING STATES:
BENANNTE VERTRAGSSTAATEN
DE GB IT

20050824 EP/AKX-A [POS; ADM; PIF] PAYMENT OF DESIGNATION FEES ZAHLUNG VON BENENNUNGSGEBUEHREN DE GB IT

20070704 EP/RAP1-A [NMC]
APPLICANT REASSIGNMENT (CORRECTION)
ANMELDER UEBERTRAGUNG (KORR.)
OWNER: YAMAHA CORPORATION

20090318 EP/17Q-A [POS; EXM] FIRST EXAMINATION REPORT ERSTER PRUEFUNGSBESCHEID EFFECTIVE DATE: 20090213 EXM

LEGEXM Alive UP 2009-12

4/4 LGST - Legal Status - ©EPO

DE69711518 20030430 DE/8364A [POS; OPP]NO OPPOSITION DURING TERM OF OPPOSITIONEINSPRUC...

PN DE69711518 D1 20020508 [DE69711518](D1) Granted EP number in Bulletin DE69711518 T2 20021128 [DE69711518](T2) Trans. of EP patent

AP DE69711518T 19970828 [1997DE-6011518]

19970828 DE-API [POS; EXM]

FILING DETAILS

DE69711518T 19970828 [1997DE-6011518]

20020508 DE-D1 [POS; EXM]

PUB Granted EP number in Bulletin

DE69711518 D1 20020508 [DE69711518]

20021128 DE-T2 [POS; EXM]

Trans. of EP patent

DE69711518 T2 20021128 [DE69711518]

ACT 20030430 DE/8364-A [POS; OPP]

ACT NO OPPOSITION DURING TERM OF OPPOSITION

EINSPRUCHSFRIST ABGELAUFEN OHNE DASS EINSPRUCH ERHOBEN WURDE

20040812 DE/8328-A [NMC; ADM]
CHANGE IN THE PERSON/NAME/ADDRESS OF THE AGENT
AENDERUNG IN PERSON, NAMEN ODER WOHNORT DES VERTRETERS
REPRESENTATIVE: KEHL & ETTMAYR, PATENTANWälte, 81679
MÜNCHEN

LEGNMC; ADM Alive UP 2004-33

1/1 CRXX - US Claims
Reassignations - ©CLAIMS/RRX

US5981860 20011012 REISSUE REQUESTEDISSUE DATE OF O.G.: 20011218REISSUE REQUEST NUMBER...

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AN 3232850

PN 5,981,860 A 19991109 [US5981860]

PA Yamaha Corp JP PT E (Electrical)

20011012 REISSUE REQUESTED ISSUE DATE OF O.G.: 20011218

REISSUE REQUEST NUMBER: 09/976769

ACT EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2837

Reissue Patent Number:

UP 2001-51 UACT 2001-12-18

Search statement 2

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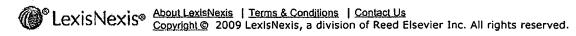
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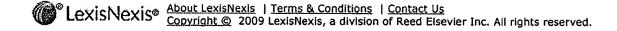
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ASX shares - leaders by VOLUME today RWE Australian Business News September 9, 2008 Tuesday 12:28

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SECTION: ASX RISES & FALLS, END-OF-DAY STATISTICS

LENGTH: 210 words

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DATELINE: Sydney Tuesday, September 9.

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